A. Nucleic acid encoding human Cloaked-2 polypeptide with signal peptide (SEQ ID NO:1)

- 1 TACTGGAAGGTGCCGTGCCCTCTCTGGCTGGTACCATGCAGCTCCCACT
- 51 GGCCCTGTGTCTCGTCTGCCTGCTGGTACACACACCCTTCCGTGTAGTGG
- 101 AGGGCCAGGGGTGGCAGGCGTTCAAGAATGATGCCACGGAAATCATCCCC
- 151 GAGCTCGGAGAGTACCCCGAGCCTCCACCGGAGCTGGAGAACAACAAGAC
- 201 CATGAACCGGGCGGAGAACGGAGGGCGGCCTCCCCACCACCCCTTTGAGA
- 251 CCAAAGACGTGTCCGAGTACAGCTGCCGCGAGCTGCACTTCACCCGCTAC
- 301 GTGACCGATGGGCCGTGCCGCAGCGCCAAGCCGGTCACCGAGCTGGTGTG
- 351 CTCCGGCCAGTGCGGCCCGGCGCGCCTGCTGCCCAACGCCATCGGCCGCG
- ${\tt 401} \>\>\>\> {\tt GCAAGTGGTGGCGACCTAGTGGGCCCGACTTCCGCTGCATCCCCGACCGC}$
- 501 CGCGCGCAAGGTGCGCCTGGTGGCCTCGTGCAAGTGCAAGCGCCTCACCC
- 551 GCTTCCACAACCAGTCGGAGCTCAAGGACTTCGGGACCGAGGCCGCTCGG
- 601 CCGCAGAAGGCCGGAAGCCGCGCCCCGGGCCCCGGAGCCCAAAGCCAA
 651 CCAGGCCGAGCTGGAGAACGCCTAC**TAG**AGCCCGCCCCCCCCCCCCCC
- 701 CCGGCGGGCCCCGGCCCTGAACCCGCGCCCCACATTTCTGTCCTCTGC
- 751 GCGTGGTTT

B. Human Cloaked-2 polypeptide most likely mature form (SEQ ID NO:2)

- 1 QGWQAFKNDATEIIPELGEYPEPPPELENNKTMNRAENGGRPPHHPFETK
- 51 DVSEYSCRELHFTRYVTDGPCRSAKPVTELVCSGQCGPARLLPNAIGRGK
- 101 WWRPSGPDFRCIPDRYRAQRVQLLCPGGEAPRARKVRLVASCKCKRLTRF
- 151 HNQSELKDFGTEAARPQKGRKPRPRARSAKANQAELENAY

C. Human Cloaked-2 polypeptide with signal peptide (SEQ ID NO:5)

- 1 MOLPLALCLVCLLVHTAFRVVEGOGWQAFKNDATEIIPELGEYPEPPPEL
- 51 ENNKTMNRAENGGRPPHHPFETKDVSEYSCRELHFTRYVTDGPCRSAKPV
- 101 TELVCSGQCGPARLLPNAIGRGKWWRPSGPDFRCIPDRYRAORVOLLCPG
- 151 GEAPRARKVRLVASCKCKRLTRFHNQSELKDFGTEAARPQKGRKPRPRAR
- 201 SAKANQAELENAY

A. Nucleic acid encoding mouse Cloaked-2 polypeptide with signal peptide (SEQ ID NO:3)

- 1 ATGCAGCCCTCACTAGCCCCGTGCCTCATCTGCCTACTTGTGCACGCTGC
- 51 CTTCTGTGCTGTGGAGGGCCAGGGGTGGCAAGCCTTCAGGAATGATGCCA
- 101 CAGAGGTCATCCCAGGGCTTGGAGAGTACCCCGAGCCTCCTCCTGAGAAC
- 151 AACCAGACCATGAACCGGGCGGAGAATGGAGGCAGACCTCCCCACCATCC
- 201 CTATGACGCCAAAGATGTGTCCGAGTACAGCTGCCGCGGAGCTGCACTACA
- 251 CCCGCTTCCTGACAGACGGCCCATGCCGCAGCGCCAAGCCGGTCACCGAG
- 301 TTGGTGTGCTCCGGCCAGTGCGCCCCGCGCGCTGCTGCCCAACGCCAT
 351 CGGGCGCGTGAAGTGGTGGCGCCCGAACGGACCGGATTTCCGCTGCATCC
- 401 CGGATCGCTACCGCGCGCAGCGGGTGCAGCTGCTGTGCCCCGGGGGCGCG
- 451 GCGCCGCGCTCGCGCAAGGTGCGTCTGGTGGCCTCGTGCAAGTGCAAGCG
- 501 CCTCACCCGCTTCCACAACCAGTCGGAGCTCAAGGACTTCGGGCCGGAGA
- 551 CCGCGCGCGCAGAAGGGTCGCAAGCCGCGGCCCCGGGGAGCC
- 601 AAAGCCAACCAGGCGGAGCTGGAGAACGCCTACTAG
- B. Mouse Cloaked-2 polypeptide most likely mature form (SEQ ID NO:4)
 - 1 QGWQAFRNDATEVIPGLGEYPEPPPENNQTMNRAENGGRPPHHPYDAKDV
 - 51 SEYSCRELHYTRFLTDGPCRSAKPVTELVCSGQCGPARLLPNAIGRVKWW
 - 101 RPNGPDFRCIPDRYRAQRVQLLCPGGAAPRSRKVRLVASCKCKRLTRFHN
 - 151 OSELKDFGPETARPQKGRKPRPGARGAKANQAELENAY
- C. Mouse Cloaked-2 polypeptide with signal peptide (SEQ ID NO:6)
 - 1 MQPSLAPCLICLLVHAAFCAVEGQGWQAFRNDATEVIPGLGEYPEPPPEN
 - 51 NQTMNRAENGGRPPHHPYDAKDVSEYSCRELHYTRFLTDGPCRSAKPVTE
 - 101 LVCSGQCGPARLLPNAIGRVKWWRPNGPDFRCIPDRYRAQRVQLLCPGGA
 - 151 APRSRKVRLVASCKCKRLTRFHNQSELKDFGPETARPQKGRKPRPGARGA
 - 201 KANQAELENAY

GAP of: Human Cloaked-2 check: 5775 from: 1 to: 213 to: Mouse Cloaked-2 check: 9489 from: 1 to: 211 Symbol comparison table: /GCGDISK/gcg10/gcgcore/data/rundata/blosum62.cmp CompCheck: 6430 Average Match: 2.912 Gap Weight: 8 Average Mismatch: -2.003 Length Weight: 2 Length: 213 Quality: 1028 Gaps: 1 Ratio: 4.872 Percent Identity: 88.152 Percent Similarity: 91.469 Match display thresholds for the alignment (s): = IDENTITY 2 1 Human Cloaked-2 (SEQ ID NO: 5) x Mouse Cloaked-2 (SEQ ID NO: 6) 1 MQLPLALCLVCLLVHTAFRVVEGQGWQAFKNDATEIIPELGEYPEPPPEL 50 1 MQPSLAPCLICLLVHAAFCAVEGQGWQAFRNDATEVIPGLGEYPEPPP.. 48 51 ENNKTMNRAENGGRPPHHPFETKDVSEYSCRELHFTRYVTDGPCRSAKPV 100 49 ENNQTMNRAENGGRPPHHPYDAKDVSEYSCRELHYTRFLTDGPCRSAKPV 98 101 TELVCSGQCGPARLLPNAIGRGKWWRPSGPDFRCIPDRYRAQRVQLLCPG 150 99 TELVCSGQCGPARLLPNAIGRVKWWRPNGPDFRCIPDRYRAQRVQLLCPG 148 151 GEAPRARKVRLVASCKCKRLTRFHNQSELKDFGTEAARPQKGRKPRPRAR 200 149 GAAPRSRKVRLVASCKCKRLTRFHNQSELKDFGPETARPQKGRKPRPGAR 198 201 SAKANQAELENAY 213

|||||||||| 199 GAKANQAELENAY 211

GAP of: Human Cloaked-1 check: 1888 from: 1 to: 183 to: Human Cloaked-2 check: 185 from: 1 to: 190
Symbol comparison table: /GCGDISK/gcg10/gcgcore/data/rundata/blosum62.cmp CompCheck: 6430
Gap Weight: 8 Average Match: 2.912 Length Weight: 2 Average Mismatch: -2.003
Quality: 335 Length: 196 Ratio: 1.831 Gaps: 6 Percent Similarity: 52.542 Percent Identity: 42.938
<pre>Match display thresholds for the alignment(s):</pre>
Human Cloaked-1 (SEQ ID NO: 25) x Human Cloaked-2 (SEQ ID NO: 2)
1FKNDATEILYSHVVKP.VPAHPSSNSTLNQARNGGRHFSNTGLDR 44 :
45 NTRVQVGCRELRSTKYISDGQCTSISPLKELVCAGECLPLPVLPNWIGGG 94
50 KDVSEYSCRELHFTRYVTDGPCRSAKPVTELVCSGQCGPARLLPNAIGRG 99
95 YGTKYWSRRSSQEWRCVNDKTRTQRIQLQCQDG.STRTYKITVVTACKCK 14 : :. : :
100KWW.RPSGPDFRCIPDRYRAQRVQLLCPGGEAPRARKVRLVASCKCK 14
144 RYTROHNESSHNFESMSPAKPVOHHRERKRASKSSKHSMS 183 : . : : 146 RLTRFHNOSELKDFGTEAARPOKGRKPRPRA.RSAKANQAELENAY 190